



Technical Committee 184: Industrial automation systems and integration
Subcommittee 4: Industrial data

TC 184/SC4 N 989

2000-02-17

ISO TC 184/SC4
Final Proposed DRAFT RESOLUTIONS

SC4 MEETING
2000-02-18
Melbourne, Australia

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SC4 Resolution “A”

SC4 Project Leadership and Editorship Approvals

from
SC4 Secretariat
ANSI/NIST/DISA

Introduction:

ISO Directives require that project leaders be approved by SC4. There has been some turn over in leadership for several projects. Each project is also strongly encouraged to have an associated part editor. For those where the project leader or editor are not listed, these positions have already been approved.

Objective(s):

- As prescribed by the Directives to approve those project leaders who have changed since the last SC4 meeting
- To reinforce the important role of editors by recognizing those newly appointed since the last SC4 meeting
- To continue to reflect the current list of project leaders and editors in the project management database

Resolution:

SC4 approves the following new project leaders or project editors for the associated SC4 projects:

ISO Project #	Project Lead	Document Editor
10303-108		Mike Pratt
10303-28	Peter Bergstrom	
10303-215		Tim Turner
10303-216	Tim Turner	Tim Turner
10303-218		Len Slovensky
10303-318	Yong Dae Kim	Yong Dae Kim
10303-234	Stain Ruud	Jochen Haenisch
10303-334	Jochen Haenisch	Stain Ruud
10303-35	Lothar Klein	Lothar Klien
10303-11: amd	Phil Spiby	David Price
10303-11: Ed 2	Phil Spiby	Don Sanderson
10303-14	Martin Hardwick,	Peter Denno
10303-21: amd ed 2:	David Price	David Loffreddo
10303-24	David Price	David Price
10303-27	Lothar Klein	Lothar Klein
10303-28		Robin Lafontaine
10303-29	Tom Rando	Tom Rando

10303-34
10303-35

Christophe Viel,
Lothar Klein

Bob Mathews
Lothar Klein

SC4 Resolution "B"

Cancellation of AP 230

from
PPC

Introduction:

Consensus has not been reached on a Committee draft of the AP, although a working draft was released in October 1996. Resources are not available for progressing the work further.

Objective:

- To remove AP 230 from the SC4 work programme

Resolution:

SC4 resolves to cancel AP230 - Building Structural Frame: Steelwork

SC4 Resolution “C”

Clarification of the SEDS process

from
WG12

Introduction: The current description of the SEDS process in the SC4 Handbook emphasizes its role as an error-reporting and solving mechanism. It therefore does not give sufficient attention to the use of SEDS to gather proposals for enhancements for future editions of SC4 standards.

Additionally, the description of the SEDS process omits the transfer of “deferred” issues from ballots to SEDS as a means of tracking them and ensuring that they are reconsidered as and when a new edition of the part is being developed or proposed.

Objective:

This resolution modifies the description of the SEDS process in the SC4 Handbook in order to clarify and emphasize its use to capture proposed enhancements to SC4 Standards.

Resolution:

SC4 directs its Secretariat to make the following changes to the SC4 Handbook.

Add the following to the first sentence of 3.3 (added text italicized):

... the use of the SC4 Standards and Standing Documents, *and to gather requirements and proposals for enhancements to future editions*, the Standard Enhancement and Discrepancy System (SEDS) tracking system has ...

Add the following paragraph after the bullet list in 3.3.1:

Any issues submitted during the ISO ballot process that are classified as “deferred” during the ballot resolution process are transferred into the SEDS process by the responsible Project Leader and/or Convener. This procedure ensures that all relevant issues are considered when amendments or new editions are being proposed or developed. All issues transferred from ballots are assigned priority 0 or priority 1, as defined in 3.3.3.2 below.

In the first bullet point of 3.3.2, correct the spelling of “ensure”.

SC4 Resolution “D”

Revisions to the operation of the Quality Committee

from
QC

Introduction:

The resources available to the Quality Committee are limited. The revised QC Quality System nonetheless requires continuous improvement and maintenance in response to the needs of SC4’s projects. At the New Orleans meeting in November 1999, the Quality Committee Convener distributed a document (QC N127) that described some proposed changes to the mode of operation of the Quality Committee, that would make it entirely task-driven. The Quality Committee has already implemented these changes in its work since the New Orleans meeting, focusing solely on those tasks for which resources are provided by SC4 projects and/or P-members. Within this mode of operation a traditional “convener” is no longer needed; rather, the QC requests that this role be modified to that of “coordinator”.

If this resolution is approved, the QC requests that SC4 consider a second resolution to confirm appointments to the revised roles of QC Coordinator and QC Deputy Coordinator.

Objective:

This resolution modifies the text of the SC4 Handbook to reflect the changed mode of operation of the Quality Committee. This resolution refines the description of the Quality Committee, replaces the role of Convener by that of Coordinator, and removes the permanent “Quality teams” from the organization.

Resolution: SC4 directs its Secretariat to make the following changes to the SC4 Handbook (SC4 N935).

replace 6.3.1 by the following:

6.3.1 Tasks

The Quality Committee performs the following tasks and activities.

- Conducting periodic reviews of the SC4 Quality System with Working Group Conveners;
- Coordinating tasks that revise or extend the components of the SC4 Quality System, in response to the needs of SC4 projects, issues (including those raised through the SEDS process), and the requirements of the ISO Technical Management Board and Central Secretariat;
- Liaising with the SC4 Secretariat and the ISO Central Secretariat on matters related to quality;
- Coordinating audits of SC4 projects;
- Establishing and implementing a formal process for collecting quality related issues that fall outside the scope of the SEDS process;
- Managing the assignment of and ensuring closure for resolutions of any issue; and
- Providing revisions to the SC4 Organization Handbook related to quality matters.

The Quality Committee’s coordination tasks are primarily undertaken using electronic communications and at QC Plenary meetings held as part of the main SC4 Working Group meetings. Additional task-related meetings and workshops are arranged as required.

replace 6.3.2 by the following:

6.3.2 The Coordinator

The Coordinator of the Quality Committee is appointed by SC4. The Coordinator is responsible for the following tasks.

- Receiving and logging requests for creation or revision of documents that comprise the SC4 Quality System.
- Requesting resources to work on QC tasks from SC4 projects and P-members; the Coordinator works with the PPC, SC4 Chair and SC4 Secretariat to encourage projects, P-members and A-liaisons to provide resources to undertake the tasks.
- Ensuring consistency amongst the documents that comprise the SC4 Quality System.
- Coordinating audits of SC4 projects.
- Reporting QC activities to SC4.
- Convening QC plenary meetings.
- Scheduling and facilitating technical meetings and workshops as required.

A Deputy Coordinator is appointed by SC4 to assist the Coordinator. The Coordinator and Deputy Coordinator agree to and document their individual responsibilities. If the Coordinator is unable to attend a particular meeting of SC4, the Deputy Coordinator will fulfil the Coordinator’s responsibilities at that meeting.

Assessment of the performance of the Coordinator / Deputy Coordinator is the responsibility of SC4. Input on the performance may be provided by the SC4 Chair and the SC4 Secretariat and assisted by the PPC.

The Coordinator / Deputy Coordinator must have

- resources to travel to at least three meetings of SC4 and its Working Groups each year;
- access to electronic mail;
- good communication skills, knowledge of the English language, and technical writing abilities;
- knowledge of ISO standards processes and procedures; quality systems (ISO 9000), and
- familiarity with the domains of SC4’s standardization efforts.

replace 6.3.3 by the following:

6.3.3 The Membership

The P-Members and A-Liaisons of SC4 nominate the members of the Quality Committee. The SC4 Secretariat maintains a list of members of the Quality Committee (names and addresses, project affiliation, fax, phone and e-mail). Additional resources participate in the work of the Quality Committee on a task-by-task basis; these resources are provided by SC4 Projects, P-members, and A-liaisons.

Delete 6.4.

SC4 also directs the Quality Committee to ensure that the SC4 Quality Manual is consistent with the revised description of the QC’s mode of operation as described above.

SC4 Resolution E

Appointment of QC Coordinator and Deputy Coordinator from SC4 Secretariat

Introduction:

The QC has proposed a resolution to this SC4 that modifies the SC4 Handbook in order to reflect the changed mode of operation of the QC. As the part of these modifications, the roles of Convener and Deputy Convener have been replaced by Coordinator and Deputy Coordinator.

Objective:

To appoint the current Convener and Deputy Convener of the QC to the new roles of Coordinator and Deputy Coordinator.

Resolution:

SC4 appoints Tom Warren as Coordinator of Quality Committee, and Julian Fowler as Deputy Coordinator of the Quality Committee.

Resolution: F
UML
from WG10

Introduction

UML (Unified Modeling Language) has reached the status of a de-facto standard for object-oriented modelling in support of systems development. OMG (Object Management Group) has become responsible for this specification.

During 1999, OMG published an RFI (Request for Information) to evaluate the need for a major revision of UML, which showed overwhelming response. A significant majority of contributions asked for improvements of the UML metamodel, mainly for the following reasons:

- Without a fundamental change in the metamodel, the intended extensions of UML would turn the language into an unmanageable and unusable monster.
- In the present state of the language, UML models are very much subject to interpretation. The distinction between semantic precision on the one side, and specification completeness to support implementation on the other as required for a conceptual modelling tool, is not made.

In his response (OMG document number AD/99-12-10), Bernd Wenzel/Eurostep pointed out, that application requirements, such as exchange, sharing, integration, consolidation, and archiving of data still are extremely important. They are however not really well supported by the use of object-oriented methodologies and tools. EXPRESS (ISO 10303-11) is indeed much better suited to solve this kind of problems. The work on ISO TS 19103 in ISO TC211/WG1 to define a UML profile in support of these requirements fully supports this statement.

During the evaluation of the RFI responses at the OMG Technical Meeting in Mesa, AZ, 2000-01, a group was formed to draft an RFP (Request for Proposal) for the revision of the UML metamodel. In this context, Bernd Wenzel made the welcomed proposal to make this new metamodel sufficiently generic, so that it could serve as a metamodel for EXPRESS as well.

Should this be achieved, UML and EXPRESS would become just different renderings of the same abstract language, enabling:

- EXPRESS users, including STEP users and implementors, to make use of mainstream technology UML based methodologies and tools in a straight forward way,
- Vendors of EXPRESS/STEP tools to grow into the UML market,
- UML users to find solutions to their requirements regarding the exchange, sharing, integration, consolidation, and archiving of data, which can be easily integrated into their implementation environments,
- OMG in its pursuit to publish some of its standards through ISO TC184/SC4 as PAS.

Objectives

This resolution tries to ensure, that OMG and ISO TC184/SC4 do not miss this unique opportunity to harmonise their basic specification technology.

Resolution

SC4 encourages OMG to accept interoperability between UML and EXPRESS (ISO 10303-11) as a mandatory requirement in the UML 2.0 development effort.

SC4 directs its WGs 10 and 11 to work closely with OMG, especially the UML 2.0 WG in OMG's Analysis and Design PTF, in support of this goal.

SC4 asks its member bodies and liaison organisations to support these efforts adequately in OMG through their member companies and organisations.

SC4 Resolution G

Appreciation

Change of Project Leader for ISO 10303-28
From
SC4

Introduction:

Change of Project Leader for ISO 10303-28

Background:

Nigel Shaw has resigned from the project co-leader role in order to work on the PLCS activities. Daniel Rivers-Moore, the other co-leader, has been unable to participate for more than a year.

Resolution

SC4 thanks Nigel Shaw and Daniel Rivers-Moore for their effort as project leader under WG11.

SC4 Resolution H

Title Change for ISO 10303-28

From
WG11

Introduction:

Change of Title for ISO 10303-28

Background:

The WG11 project working on ISO 10303-28 has reached consensus on a new title that accurately reflects the content of the part and avoids introducing new terminology (as in "EXPRESS-driven data")

Resolution:

SC4 accepts the recommendation of WG11 to change the title of ISO 10303-28 to: Product data representation and exchange: Implementation methods: XML representation of EXPRESS schemas and data.

SC4 Resolution “T”

Rationalisation of SC4 liaisons

from
PPC

Introduction:

A number of SC4 liaisons are inactive, due to evolving requirements and changes in other organisations. These liaisons are not formally recognised by ISO.

In addition, the launch of the ISO/IEC/ITU/CEFACT Management Group provides an alternative route for identifying and handling items of common interest with the JTC1 and the UN/CEFACT organisations.

Objective:

The objective of this resolution is to eliminate inactive liaisons from the SC4 organisation.

Resolution:

SC4 resolves to terminate its direct liaisons with the following organisations:

CAM-I
UN/ECE
ISO/IEC JTC1 SC24
ISO/IEC JTC1/SC14
ISO/IEC JTC1/SC21/WG3
ISO/IEC JTC1/SC21/WG3/CSMF
ISO/IEC JTC1/SC6
ISO/IEC JTC1/SC7
ISO/IEC JTC1/SC7/WG11
JTC1/WG4

SC4 Resolution “J”

Balloting procedures for Technical Specifications

from
PPC

Introduction:

ISO has now introduced separate distribution and voting forms for Technical Specifications. These forms are similar to the CD forms, and are subjected to the same process, but are not CD ballots.

This requires additional modifications to the Handbook to reflect current ISO practice.

Objective:

This resolution will amend the Organisation Handbook to reflect the separate ballot process for TS, to avoid confusion.

Resolution:

SC4 requests its secretariat to amend the Organisation Handbook as follows:

- Amend Clause 2.3 to add reference to Technical Specifications ".....(CD) *or Preliminary Draft Technical Specification (PDTS)* , (2).....
- Amend Clause 2.4 by replacing the reference to "CD" by "ballot"
- Amend Clause 2.5 by replacing all references to "CD ballot" by "ballot".

SC4 also requests its secretariat to make any corresponding changes to the standardisation process summary on the SC4 web site.

SC4 Resolution “K”

Melbourne, Australia
SC4 Resolution

Recognition of Sophie Clivio services to SC4 from PPC

Introduction:

Mrs. Sophie Clivio was nominated recently Technical Officer for our Committee, and since that she has facilitated the interpretation and the use of the ISO Directives and of the many ISO/TMB decisions in SC4.

Objective:

PPC want to support Sophie Clivio in this position and request the publication of a new set of Directives, integrating the more recent decisions from the TMB, into a unique, visible and consistent set of documents, that would facilitate the work of the Project leaders, Document editors, Convenors and Secretariat in applying the Directives. It would also avoid the need to interpret and record ISO procedures in the SC4 Organisation Handbook

Resolution:

SC4 thanks the ISO/CEO for the nomination of Mrs. Sophie Clivio as Technical Officer for ISO/ TC 184 and ISO/TC 184/SC 4.

SC4 recognizes the excellence of the support and advice of Mrs. Sophie Clivio in the interpretation and explanation of the ISO Directives and the many TMB decisions complementing the Directives.

SC4 recommends the ISO/CS to publish a new edition of the ISO Directives incorporating the various ISO/TMB decisions, in order to facilitate the access to the rules governing the Committee work.

Attached documents: none

SC4 Resolution “L”

Establish Liaison with ISO TC207/SC5 from WG3 Convener

Introduction: ISO TC 207/SC5 deals with standardization in the field of life cycle assessment as a tool for the environmental management and service systems. It encompasses the assessment of impacts on the environment from the extraction of raw materials to the final disposal of waste.

The 14040 series is particularly of interest for STEP and a first draft has already been published. ISO 14041 is a format for archiving life cycle inventory data.

There is a TC 207/SC5/WG2/TG on Data Documentation Format for LCI Data.

At the end of 1998, Corinne del Cerro, the secretary of TC207/SC5 sent Lisa Phillips, the secretary of ISO TC 184/SC4, a request to establish a liaison between TC207/SC5 and TC184/SC4. Apparently, she never received a reply. Leena Eberfors, the secretary of the TG on Data Documentation Format for LCI Data has recently confirmed that a liaison is still desired.

Objective: Establish a Class A liaison with ISO TC 207/SC5.

Resolution: SC4 accepts the request from ISO TC 207/SC5 to establish a Class A and appoints Dr. Anna Moreno as the liaison from SC4 to TC 207/SC5.

Attached documents: None.

Resolution “M”

Establish Liaison with VAMAS

from
WG3 Convener

Introduction: The Versailles Project on Advanced Materials and Standards (VAMAS) does prestandard research in advanced materials. VAMAS has 25 technical working areas (TWAs). The key objective of TWA 10, Computerised Materials Data, has been to assess the role of standards in the flow of computerised materials information.

Materials databanks are becoming important elements in the computerised flow of information on material properties. Standards are needed for models that relate to the flow of information from its generation to use.

The needs and problems were identified through a consensus process and described in VAMAS Technical Report No. 2, Factual Material Databanks - The Needs for Standards. Through a series of workshops and publications, numerous approaches to satisfying the needs were proposed and evaluated. Two major studies have been completed: Classification and Designation Systems for Materials and Interlaboratory Comparison of Computerised Data Evaluation Methods.

More information about VAMAS can be found at the Web site, <http://www.vamas.org/>.

VAMAS could benefit from SC4 technology such as EXPRESS and PLIB. Furthermore, availability of materials information is important to achieving SC4's manufacturing objectives. A dialog needs to be established between the two groups to avoid duplication of effort and achieve interoperability.

Objective: Establish a Class A liaison with VAMAS.

Resolution: SC4 requests the Versailles Project on Advanced Materials and Standards (VAMAS) to establish an A liaison with SC4, directed particularly at Technical Working Area (TWA) 10. SC4 appoints Dr. Anna Moreno as the liaison from SC4 to VAMAS.

Attached documents: None.

Resolution “N”

ISO TC 184/SC4 QC Resolution Paper

From
QC

Introduction:

During the development of the SC4 Quality Manual (see SC4 N917 and QC N121) a number of omissions from the SC4 Handbook have been identified.

NOTE This resolution was submitted as an Advance Resolution for the New Orleans meeting but was not included in the materials distributed to P-members before the meeting. At the New Orleans meeting it was agreed that the resolution should be re-distributed as an Advance Resolution for Melbourne. Although this did not occur, P-members are requested to consider this as a last-day resolution in Melbourne on the basis that the proposed changes have been available (as QC N123) since 1999-09-01, and that the changes to the SC4 Handbook are required to align it with the SC4 Quality Manual.

Objectives:

This resolution proposes five changes to the text of the SC4 Handbook to cover the following:

- Extension of the procedure describing applicability of Standing Documents to include new Standing Documents as well as revisions to existing ones.
- Clarification of the approval process for changes to Standing Documents.
- Clarification of responsibility for project document control.
- Addition of references to the Quality Manual to describe the requirement on Projects to maintain Quality Records
- A formal assessment procedure for the work of Project Leaders

Resolution:

SC4 resolves to accept the amendments to the SC4 Organization Handbook as defined in SC4 QC N123, with immediate effect.

Attached documents:

- QC N123

Resolution “O”

Cooperation Between SC4 and Object Management Group (OMG)

From
SEC

Information:

The SC4 Secretariat has received a communication from the Object Management Group (OMG).

Objectives:

To formulate a cooperative working arrangements for areas of potential mutual interest.

Resolution:

SC4 fully supports and looks forward to working with the OMG organization to achieve mutual benefits in the development and accreditation of appropriate specifications which qualify as international standards.

Resolution “P”
APPRECIATION RESOLUTIONS

From
SEC

Acclamation

SC4 expresses its appreciation to Ms. Nicole Watkinson, Director of Manufacturing Industry, Victoria, in the Department of Industry and Regional Development, speaking on behalf of the Victorian Minister for Manufacturing and Industry, for her welcoming remarks and expressions of support for the work of SC4.

Acclamation

SC4 expresses its appreciation to its meeting host, Standards Authority of Australia (SAA), for the excellent meeting facilities, the good food, and superb desserts as well as the wonderful banquet on Tuesday evening. SC4 also expresses its appreciation to Mr. David Bruce-Steer, Belinda Sparks, Sylvia Minton, Liam Wallwork and Helen Gomes for their hospitality and outstanding support both before and during the meeting.

Acclamation

SC4 expresses its appreciation to the Covenors, Project Leaders and Rapporteurs for their efforts in support of the work of SC4 and for the preparation of the reports that reflect these activities.

Acclamation

SC4 expresses its appreciation to Rob Anderson of BSI and Howard Mason of BAE for their efforts in support of the clean-up, verification, and validation of the SC4 database. This is a major contribution that is key to the successful operation of SC4.

Acclamation

SC4 expresses its appreciation to the Drafting Committee for the completion of its resolutions.

Acclamation

SC4 expresses its appreciation to its Chairman, Mr. Dick Wandmacher, for his fine efforts in bringing about another successful SC4 Plenary Meeting. His continuous leadership, patience, good humor and attention to getting the work done are critical to the success of SC4.

